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Method and system for a robot path.

(57)

A method and system for correcting a programmed robot manipulator path to compensate for variability of the location of a succession of workpieces includes the steps of sensing and measuring path offsets between the idealized workpiece location and the actual location of the workpiece at a plurality of waypoints, converting the measured offsets into translations and rotations of the workpiece by multiplying a matrix comprised of the offset measurements by a previously prepared conversion matrix, correcting the coordinates of waypoints within the preprogrammed path by applying the translations and rotations to such coordinates, transforming the corrected preprogrammed path coordinates into machine control coordinates, and providing a controller for the robot manipulator with such machine control coordinates.

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# EUROPEAN SEARCH REPORT

Application Number

EP 89 30 8286

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	EP-A-0 062 244 (K.K. YASKAWA DENKI SEISAKUSHO) * Pages 2-3; figure 1 * ---	1-7	G 05 B 19/403 B 25 J 9/18
A	IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. IE-34, no. 1, February 1987, New York, US, pages 1-4; MOCHEZUKI et al.: "Unpositioned workpieces handling robot with visual and force sensors" * The whole document * ---	1-7	
A,D	13TH INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ROBOTS, vol. 2, 17th April 1983, Chicago, US, pages 1631-1647; MILENKOVIC et al.: "Kinematics of major robot linkage" * The whole document * -----	1-7	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 07-03-1990	Examiner MOYLE J.F.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document			